

# Lab Farm 2



Inias Somers  
Seppe De Beule  
Sam Van Bogaert  
Raymond Mohammad  
Gilian Sterckx  
Kevin Van de Vyver

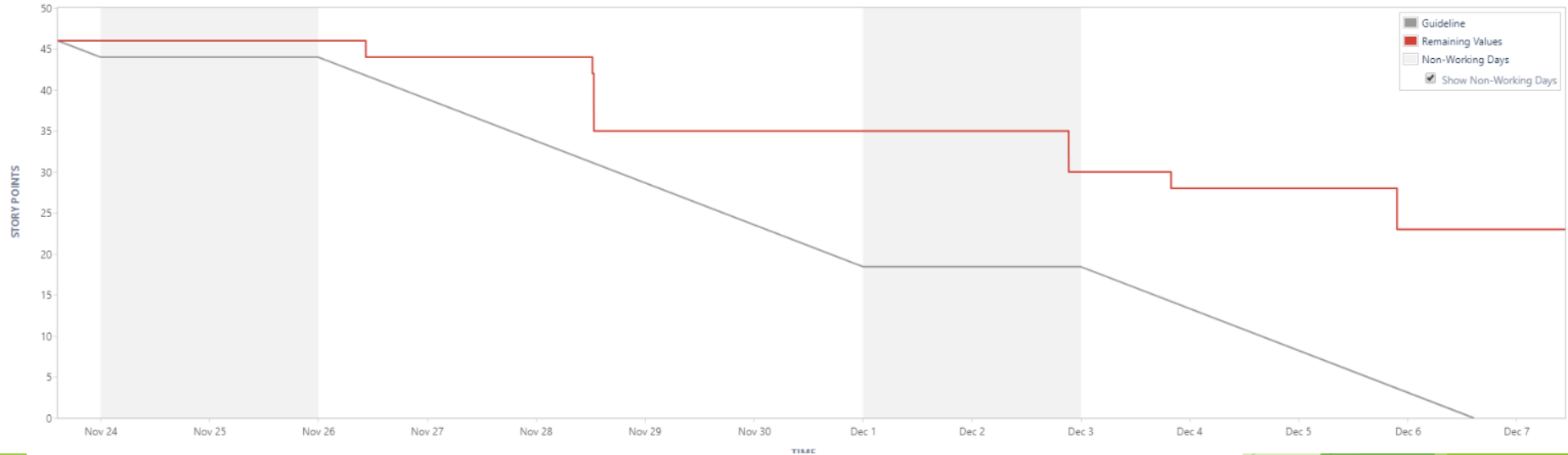
# Taakverdeling

- |                      |                      |                   |
|----------------------|----------------------|-------------------|
| • Seppe De Beule     | ⇒ Plant Conditioning | ⇒ Web Dashboard   |
| • Sam Van Bogaert    | ⇒ Plant Conditioning | ⇒ Sensoren        |
| • Inias Somers       | ⇒ Plant Robot        | ⇒ PCB             |
| • Kevin Van de Vyver | ⇒ Plant Robot        | ⇒ Constructie     |
| • Raymond Mohammad   | ⇒ Project Manager    | ⇒ API             |
| • Gilian Sterckx     | ⇒ Camera             | ⇒ Beeldherkenning |

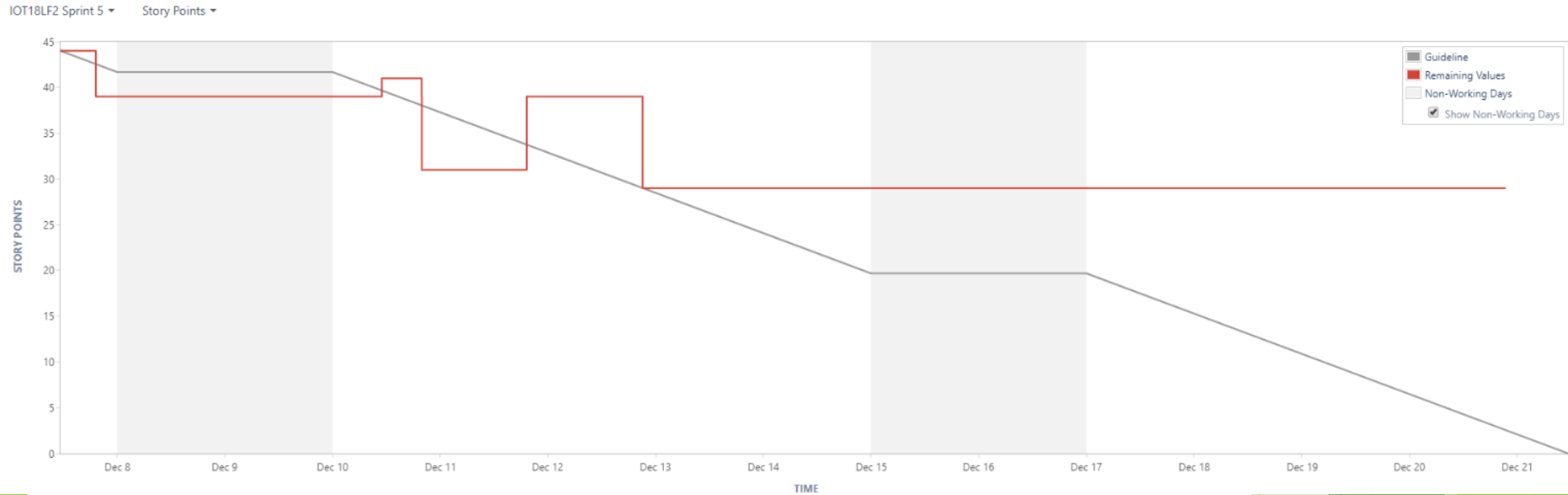
# Burndown chart sprint 4

IOT18LF2 Sprint 4 ▾ Story Points ▾

Reopen sprint



# Burndown chart sprint 5



# Afgewerkte stories





















## Completed Issues

[View in Issue navigator](#)

Key	Summary	Issue Type	Priority	Status	Story Points (25)
<a href="#">IOT18LF2-27</a>	As a developer, I want to be able to easily connect components	 Story	 Medium	<span>DONE</span>	2
<a href="#">IOT18LF2-28</a>	As a developer I want to make a PCB design for the general circuit	 Story	 Medium	<span>DONE</span>	8
<a href="#">IOT18LF2-50</a>	As a developer i want to make a PCB design for the backup battery circuit	 Story	 Medium	<span>DONE</span>	5
<a href="#">IOT18LF2-88 *</a>	As a developer, I want to create an circuit that controls the ledstrip	 Story	 Medium	<span>DONE</span>	2
<a href="#">IOT18LF2-89 *</a>	As a developer i want to make the final PCB designs	 Story	 Medium	<span>DONE</span>	8

## Completed Issues

[View in Issue navigator](#)

Key	Summary	Issue Type	Priority	Status	Story Points (23)
<a href="#">IOT18LF2-3</a>	As a user I want to receive a notification if a variable is too low	 Story	 Medium	<span>DONE</span>	2
<a href="#">IOT18LF2-4</a>	As a user I want to receive a notification if a variable is too high	 Story	 Medium	<span>DONE</span>	2
<a href="#">IOT18LF2-34</a>	As a user I want a finished first version of the PCB design	 Story	 Medium	<span>DONE</span>	5
<a href="#">IOT18LF2-36</a>	As a user I want daily photos of my plant	 Story	 Medium	<span>DONE</span>	2
<a href="#">IOT18LF2-44</a>	As a user I want to know how the water level sensor works	 Story	 Medium	<span>DONE</span>	1
<a href="#">IOT18LF2-48</a>	As a developer , i want to test the LED strip	 Story	 Medium	<span>DONE</span>	2
<a href="#">IOT18LF2-49</a>	As a user I want the components to have the correct power levels	 Story	 Medium	<span>DONE</span>	2
<a href="#">IOT18LF2-52</a>	As a developer, I want to retrieve all sensor history data	 Story	 Medium	<span>DONE</span>	2
<a href="#">IOT18LF2-77</a>	As a developer, I want to test the stepper motor	 Story	 Medium	<span>DONE</span>	2
<a href="#">IOT18LF2-85</a>	As a developer i want to make the final electric circuit	 Story	 Medium	<span>DONE</span>	3

# Sensoren & Python script

- Waterniveau sensor van het waterreservoir werkt
- Inkomende data geformatteerd
- MQTT published op topic

# Ledstrip

- Ledstrip werkend gekregen
- Besturing via MOSFETs

Raspberry Pi → MOSFET → Ledstrip

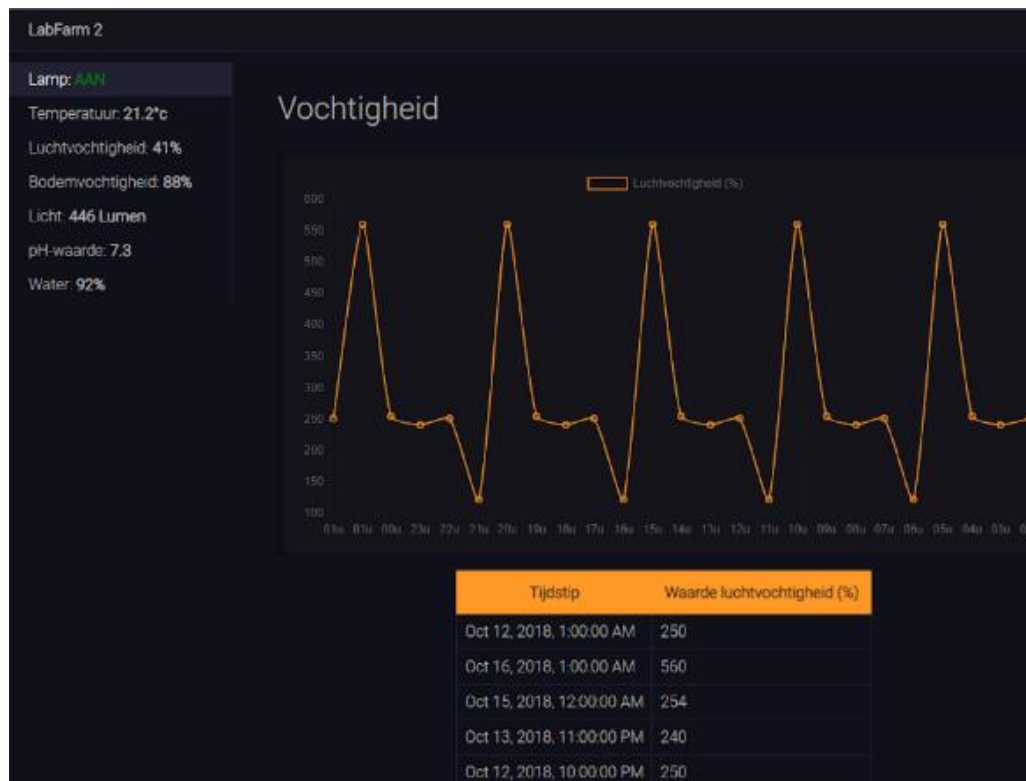


# Dashboard

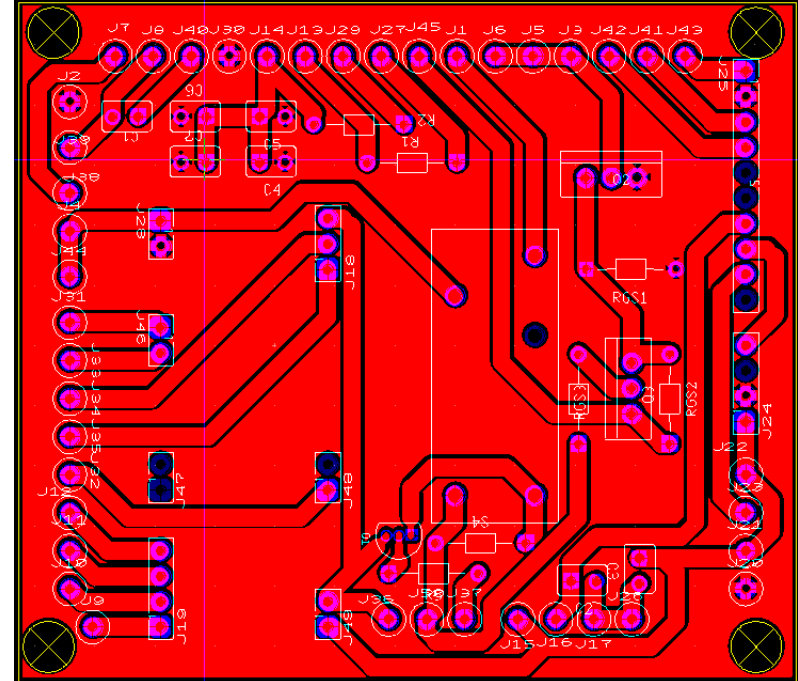
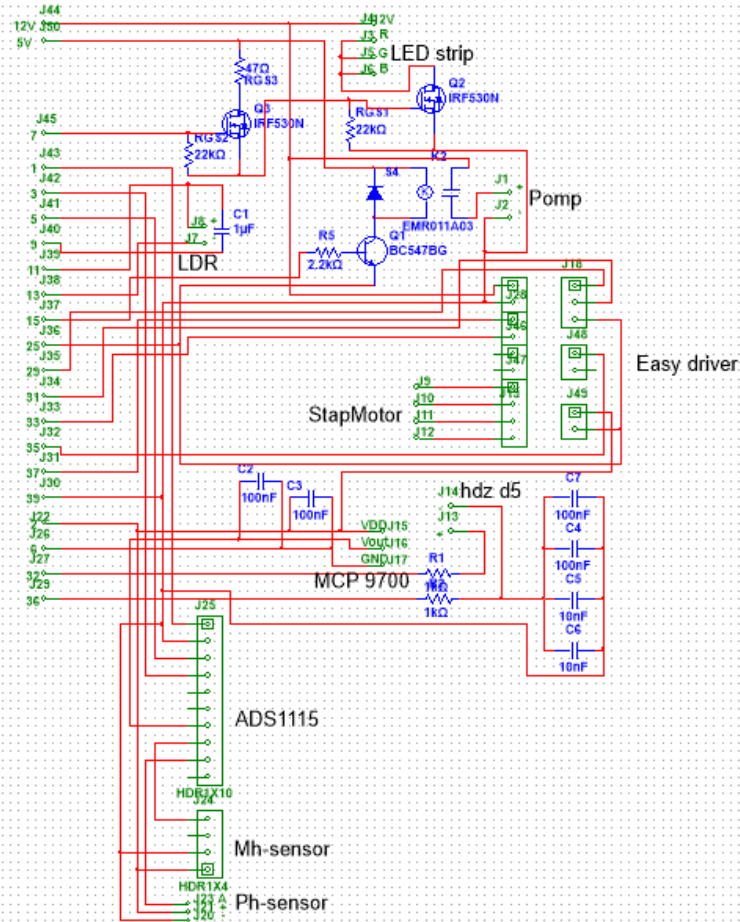
- MQTT optie toegevoegd
- Functionele tweaks (URL's, sidebar veranderd)



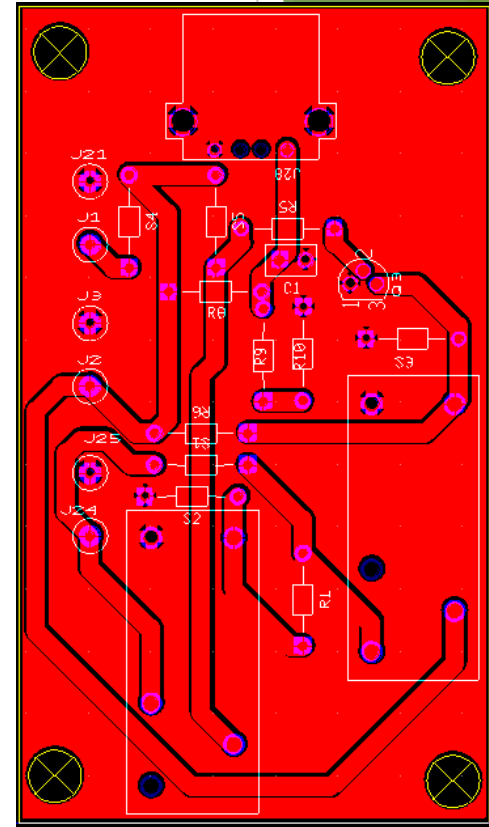
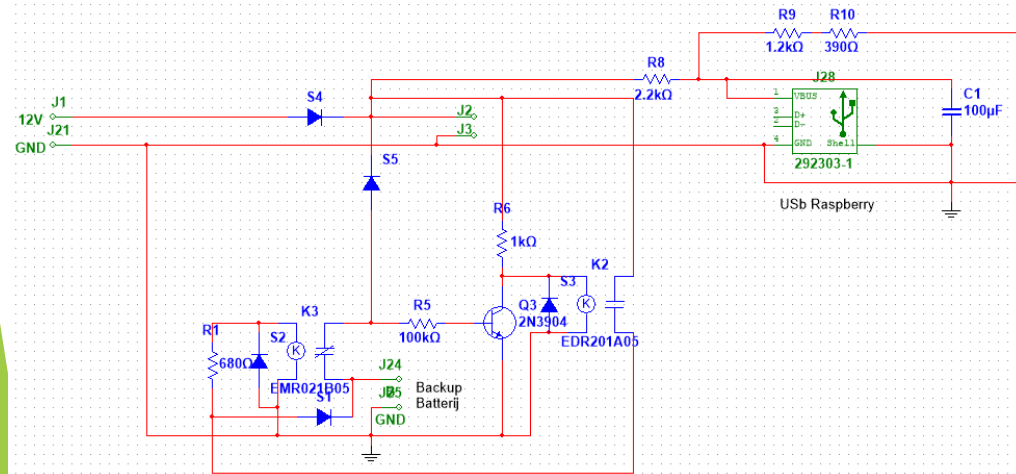
# API



# PCB

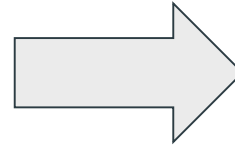
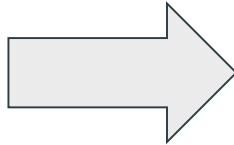
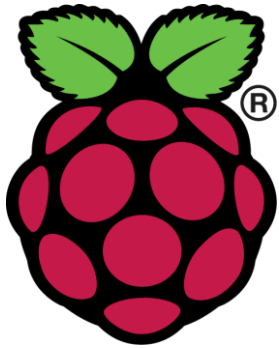


# PCB



# Beeldherkenning

- Verbinding met imgur.api is gelegd
- Imgur API zal gebruikt worden als database voor de afbeeldingen



# Planning

- Constructie afwerken (tandwielen + plaatje + stappenmotor)
- Led strip besturen ( Manueel via dashboard )
- PCB's werkend hebben
- Pomp aansluiten
- Sensor data op datum